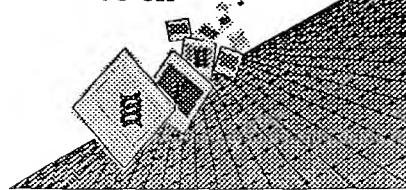


CRF Diskette Problem Report

TECHNOLOGY
SYSTEMS
BRANCH



The Scientific and Technical Information Center (STIC) experienced a problem when processing the following CRF diskette:

Application Serial Number:

08/779460A

Filing Date:

1/7/97

Classification:

800

Date Processed by STIC:

10/27/97

Point-of-Contact/Telephone No.: Arti Shah 703 - 308 - 4212

Nature of Problem:

The diskette was:

- Damaged
- Unreadable
- Blank (no files present on diskette)
- Contained an empty file (filename present, but no bytes in file)
- A computer virus was detected on the diskette. The STIC will not process the diskette through the Data Capture System.

Name of virus: _____

The Sequence Listing was not saved in ASCII (DOS) text.

The diskette contained an error that disrupted normal processing:

INPUT SET: S24825.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

(1) General Information:

Does Not Comply
Corrected Diskette Needed

(i) APPLICANTS:

Oscar Johannes Maria GODDIJN
Teunis Cornelis VERWOERD
Ronny Wilhelmus Hermanus Henrika KRUTWAGEN
Eline VOOGD

(ii) TITLE OF INVENTION:

ENHANCED ACCUMULATION OF TREHALOSE IN PLANTS

(iii) NUMBER OF SEQUENCES: 27

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: LADAS & PARRY

(B) STREET: 26 WEST 61 STREET

(C) CITY: NEW YORK

(D) STATE: NY

(F) ZIP: 10023

(E) COUNTRY: USA

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: 3-1/4" Disk 1.44 MB

(B) COMPUTER: IBM PC Compatible

(C) OPERATING SYSTEM: Microsoft Windows for Workgroups 3.11

(D) SOFTWARE: WordPerfect 6.1 for Windows

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 08/779,460

(B) FILING DATE: 07-JAN-1997

INPUT SET: S24825.raw

47
> 48 (C) CLASSIFICATION: 435
49
50
51 (vii) PRIOR APPLICATION DATA:
52
53 (A) APPLICATION NUMBER: PY000009/96
54
55 (B) FILING DATE: 12-JAN-1996
56
57 (viii) ATTORNEY/AGENT INFORMATION:
58
59 (A) NAME: MASS, Clifford J.
60
61 (B) REGISTRATION NO.: 30,086
62
63 (C) REF./DOCKET NO.: U-011098-6
64
65 (ix) TELECOMMUNICATION INFORMATION:
66
67 (A) TELEPHONE NUMBER: (212) 708-1890
68
69 (B) TELEFAX NUMBER: (212)- 246-8959
70
71 (C) TELEX NUMBER: 233288
72
73
74 (2) INFORMATION FOR SEQ ID NO: 1:
75
76 (i) SEQUENCE CHARACTERISTICS:
77 (A) LENGTH: 2621 base pairs
78 (B) TYPE: nucleic acid
79 (C) STRANDEDNESS: double
80 (D) TOPOLOGY: linear
81
82 (ii) MOLECULE TYPE: cDNA to mRNA
83
84 (iii) HYPOTHETICAL: NO
85
86 (ix) FEATURE:
87 (A) NAME/KEY: CDS
88 (B) LOCATION: 25..2485
89 (D) OTHER INFORMATION: /function= "trehalose phosph.
90 synthase and trehalose phosph. phosphatase"
91 /product= "bipartite enzyme"
92
93 (ix) FEATURE:
94 (A) NAME/KEY: unsure
95 (B) LOCATION: 1609..1611
96
97
98 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
99

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/779,460BDATE: 04/09/98
TIME: 13:14:20

INPUT SET: S24825.raw

100	CTGATCCTGC GGTTTCATCA CAAT ATG ATA CTC TTA CAT CTG ATG CCC CTT	51
101	Met Ile Leu Leu His Leu Met Pro Leu	
102	1 5	
103		
104	CAG ATG CTC CCA AAT AGG TTG ATT GTC GTA TCG AAT CAG TTA CCC ATA	99
105	Gln Met Leu Pro Asn Arg Leu Ile Val Val Ser Asn Gln Leu Pro Ile	
106	10 15 20 25	
107		
108	ATC GCT AGG CTA AGA CTA ACG ACA ATG GAG GGT CCT TTT GGG ATT TCA	147
109	Ile Ala Arg Leu Arg Leu Thr Thr Met Glu Gly Pro Phe Gly Ile Ser	
110	30 35 40	
111		
112	CTT GGG ACG AGA GTT CGA TTT ACA TGC ACA TCA AAG ATG CAT TAC CCG	195
113	Leu Gly Thr Arg Val Arg Phe Thr Cys Thr Ser Lys Met His Tyr Pro	
114	45 50 55	
115		
116	CAG CCG TTG AGG TTT TCT ATT CTT GGC GAT CCA CTA AGG GCT GAC GTT	243
117	Gln Pro Leu Arg Phe Ser Ile Leu Gly Asp Pro Leu Arg Ala Asp Val	
118	60 65 70	
119		
120	GGC CCT ACC GAA CAA GAT GAC GTG TCA AAG ACA TTG CTC GAT AGG TTT	291
121	Gly Pro Thr Glu Gln Asp Asp Val Ser Lys Thr Leu Leu Asp Arg Phe	
122	75 80 85	
123		
124	AAT TGC GTT GCG GTT TTT GTC CCT ACT TCA AAA TGG GAC CAA TAT TAT	339
125	Asn Cys Val Ala Val Phe Val Pro Thr Ser Lys Trp Asp Gln Tyr Tyr	
126	90 95 100 105	
127		
128	CAC TGC TTT TGT AAG CAG TAT TTG TGG CCG ATA TTT CAT TAC AAG GTT	387
129	His Cys Phe Cys Lys Gln Tyr Leu Trp Pro Ile Phe His Tyr Lys Val	
130	110 115 120	
131		
132	CCC GCT TCT GAC GTC AAG AGT GTC CCG AAT AGT CGG GAT TCA TGG AAC	435
133	Pro Ala Ser Asp Val Lys Ser Val Pro Asn Ser Arg Asp Ser Trp Asn	
134	125 130 135	
135		
136	GCT TAT GTT CAC GTG AAC AAA GAG TTT TCC CAG AAG GTG ATG GAG GCA	483
137	Ala Tyr Val His Val Asn Lys Glu Phe Ser Gln Lys Val Met Glu Ala	
138	140 145 150	
139		
140	GTA ACC AAT CGT AGC AAT TAT GTA TGG ATA CAT GAC TAC CAT TTA ATG	531
141	Val Thr Asn Arg Ser Asn Tyr Val Trp Ile His Asp Tyr His Leu Met	
142	155 160 165	
143		
144	ACG CTA CCG ACT TTC TTG AGG CGG GAT TTT TGT CGT TTT AAA ATC GGT	579
145	Thr Leu Pro Thr Phe Leu Arg Arg Asp Phe Cys Arg Phe Lys Ile Gly	
146	170 175 180 185	
147		
148	TTT TTT CTG CAT AGC CCG TTT CCT TCC TCG GAG GTT TAC AAG ACC CTA	627
149	Phe Phe Leu His Ser Pro Phe Pro Ser Ser Glu Val Tyr Lys Thr Leu	
150	190 195 200	
151		
152	CCA ATG AGA AAC GAG CTC TTG AAG GGT CTG TTA AAT GCT GAT CTT ATC	675

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/779,460BDATE: 04/09/98
TIME: 13:14:21

INPUT SET: S24825.raw

153	Pro Met Arg Asn Glu Leu Leu Lys Gly Leu Leu Asn Ala Asp Leu Ile	
154	205	210
155		215
156	GGG TTC CAT ACA TAC GAT TAT GCC CGT CAT TTT CTA ACG TGT TGT AGT	723
157	Gly Phe His Thr Tyr Asp Tyr Ala Arg His Phe Leu Thr Cys Cys Ser	
158	220	225
159	230	
160	CGA ATG TTT GGT TTG GAT CAT CAG TTG AAA AGG GGG TAC ATT TTC TTG	771
161	Arg Met Phe Gly Leu Asp His Gln Leu Lys Arg Gly Tyr Ile Phe Leu	
162	235	240
163	245	
164	GAA TAT AAT GGA AGG AGC ATT GAG ATC AAG ATA AAG GCG AGC GGG ATT	819
165	Glu Tyr Asn Gly Arg Ser Ile Glu Ile Lys Ile Lys Ala Ser Gly Ile	
166	250	255
167	260	265
168	CAT GTT GGT CGA ATG GAG TCG TAC TTG AGT CAG CCC GAT ACA AGA TTA	867
169	His Val Gly Arg Met Glu Ser Tyr Leu Ser Gln Pro Asp Thr Arg Leu	
170	270	275
171	280	
172	CAG GTT CAA GAA GTC CAA AAA CGT TCG AAG GAA ATC GTG CTA CTG GGA	915
173	Gln Val Gln Glu Val Gln Lys Arg Ser Lys Glu Ile Val Leu Leu Gly	
174	285	290
175	295	
176	GTT GAT GAT TTG GAT ATA TTC AAA GGT GTG AAC TTC AAG GTT TTA GCG	963
177	Val Asp Asp Leu Asp Ile Phe Lys Gly Val Asn Phe Lys Val Leu Ala	
178	300	305
179	310	
180	TTG GAG AAG TTA CTT AAA TCA CAC CCG AGT TGG CAA GGG CGT GTG GAA	1011
181	Leu Glu Lys Leu Leu Lys Ser His Pro Ser Trp Gln Gly Arg Val Glu	
182	315	320
183	325	
184	AAG GTG CAA ATC TTG AAT CCT CTG CGC CGT TGC CAA GAC GTC GAT GAG	1059
185	Lys Val Gln Ile Leu Asn Pro Leu Arg Arg Cys Gln Asp Val Asp Glu	
186	330	335
187	340	345
188	ATC AAT GCC GAG ATA AGA ACA GTC TGT GAA AGA ATC AAT AAC GAA CTG	1107
189	Ile Asn Ala Glu Ile Arg Thr Val Cys Glu Arg Ile Asn Asn Glu Leu	
190	350	355
191	360	
192	GGA AGC CCG GGA TAC CAG CCC GTT GTG TTA ATT GAT GGG CCC GTT TCG	1155
193	Gly Ser Pro Gly Tyr Gln Pro Val Val Leu Ile Asp Gly Pro Val Ser	
194	365	370
195	375	
196	TTA AGT GAA AAA GCT GCT TAT TAT GCT ATC GCC GAT ATG GCA ATT GTT	1203
197	Leu Ser Glu Lys Ala Ala Tyr Tyr Ala Ile Ala Asp Met Ala Ile Val	
198	380	385
199	390	
200	ACA CCG TTA CGT GAC GGA CTG AAT CTT ATC CCG TAC GAG TAC GTC GTT	1251
201	Thr Pro Leu Arg Asp Gly Leu Asn Leu Ile Pro Tyr Glu Tyr Val Val	
202	395	400
203	405	
204	TCC CGA CAA AGT GTT AAT GAC CCA AAT CCC AAT ACT CCA AAA AAG AGC	1299
205	Ser Arg Gln Ser Val Asn Asp Pro Asn Pro Asn Thr Pro Lys Lys Ser	

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/779,460B

DATE: 04/09/98

TIME: 13:14:23

INPUT SET: S24825.raw

206	410	415	420	425	
207					
208	ATG CTA GTG GTC TCC GAG TTC ATC GGT GTT TCA CTA TCT TTA ACC GGG				1347
209	Met Leu Val Val Ser Glu Phe Ile Gly Val Ser Leu Ser Leu Thr Gly				
210	430	435	440		
211					
212	GCC ATA CGG GTC AAC CCA TGG GAT GAG TTG GAG ACA GCA GAA GCA TTA				1395
213	Ala Ile Arg Val Asn Pro Trp Asp Glu Leu Glu Thr Ala Glu Ala Leu				
214	445	450	455		
215					
216	TAC GAC GCA CTC ATG GCT CCT GAT GAC CAT AAA GAA ACC GCC CAC ATG				1443
217	Tyr Asp Ala Leu Met Ala Pro Asp Asp His Lys Glu Thr Ala His Met				
218	460	465	470		
219					
220	AAA CAG TAT CAA TAC ATT ATC TCC CAT GAT GTA GCT AAC TGG GCT AGC				1491
221	Lys Gln Tyr Gln Tyr Ile Ile Ser His Asp Val Ala Asn Trp Ala Ser				
222	475	480	485		
223					
224	TTC TTT CAA GAT TTA GAG CAA GCG TGC ATC GAT CAT TCT CGT AAA CGA				1539
225	Phe Phe Gln Asp Leu Glu Gln Ala Cys Ile Asp His Ser Arg Lys Arg				
226	490	495	500	505	
227					
228	TGC ATG AAT TTA GGA TTT GGG TTA GAT ACT AGA GTC GTC TTT TTG ATG				1587
229	Cys Met Asn Leu Gly Phe Gly Leu Asp Thr Arg Val Val Phe Leu Met				
230	510	515	520		
231					
232	AGA AGT TTA GCA AGT TGG ATA AAG ATG TCT TGG AAG AAT GCT TAT TCC				1635
233	Arg Ser Leu Ala Ser Trp Ile Lys Met Ser Trp Lys Asn Ala Tyr Ser				
234	525	530	535		
235					
236	ATG GCT CAA AAT CGG GCC ATA CTT TTG GAC TAT GAC GGC ACT GTT ACT				1683
237	Met Ala Gln Asn Arg Ala Ile Leu Leu Asp Tyr Asp Gly Thr Val Thr				
238	540	545	550		
239					
240	CCA TCT ATC AGT AAA TCT CCA ACT GAA GCT GTT ATC TCC ATG ATC AAC				1731
241	Pro Ser Ile Ser Lys Ser Pro Thr Glu Ala Val Ile Ser Met Ile Asn				
242	555	560	565		
243					
244	AAA CTG TGC AAT GAT CCA AAG AAC ATG GTG TTC ATC GTT AGT GGA CGC				1779
245	Lys Leu Cys Asn Asp Pro Lys Asn Met Val Phe Ile Val Ser Gly Arg				
246	570	575	580	585	
247					
248	AGT AGA GAG AAA ATC TTG GCA GTT GGT TCG GCG CGT GTG AGA ACC CGC				1827
249	Ser Arg Glu Lys Ile Leu Ala Val Gly Ser Ala Arg Val Arg Thr Arg				
250	590	595	600		
251					
252	CAT TGC ACT GAG CAC GGA TAC TTT ATA AGG TGG GCG GGT GAT CAA GAA				1875
253	His Cys Thr Glu His Gly Tyr Phe Ile Arg Trp Ala Gly Asp Gln Glu				
254	605	610	615		
255					
256	TGG GAA ACG TGC GCA CGT GAG AAT AAT GTC GGG TGG ATG GAT GGA AAT				1923
257	Trp Glu Thr Cys Ala Arg Glu Asn Asn Val Gly Trp Met Asp Gly Asn				
258	620	625	630		

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/779,460BDATE: 04/09/98
TIME: 13:14:24**INPUT SET: S24825.raw****Error**

Mandatory Value Not Present
Mandatory Value Not Present
Wrong Classification
Unknown or Misplaced Identifier

Original Text

(i) APPLICANTS:
(ii) TITLE OF INVENTION:
(C) CLASSIFICATION: 435
(B) TELEAX NUMBER: (212)- 246-8959